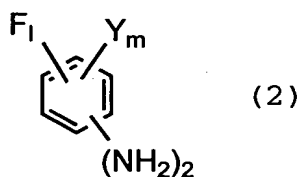
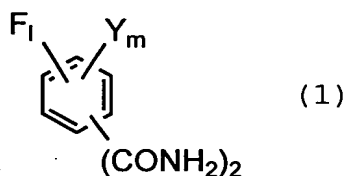


CLAIMS

1. A method for the production of a fluorinated phenylenediamine represented by the following formula (2),
 5 which comprises steps of reacting a diamide represented by the following formula (1) with NaOX [wherein X stands for a bromine atom (Br) or a chlorine atom (Cl)] at a molar ratio of the NaOX to the diamide (NaOX/diamide ratio) in the range of 2.0 - 6.0 and NaOH at a molar ratio of the NaOH to the
 10 diamide (NaOH/diamide ratio) in the range of 1.8 - 6.0.

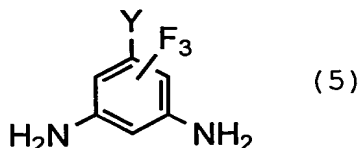
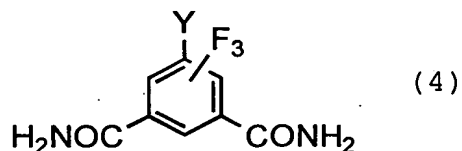


wherein in the formulas (1) and (2), Y stands for a hydrogen atom (H), a bromine atom (Br), a chlorine atom (Cl), a fluorine atom (F), a C₁ - C₅ alkyl group optionally having a substituent,
 15 or a C₁ - C₅ alkoxy group optionally having a substituent, l is an integer in the range of 1 - 4, m is an integer in the range of 0 - 3, provided that the total number of l and m (l + m) is 4.

20 2. A method according to claim 1, wherein said diamide is reacted with NaOX and NaOH at a temperature in the range of 0 - 20°C and the resultant reaction product is heated at a temperature exceeding 20°C and not exceeding 100°C.

25 3. A method according to claim 1 or 2, wherein said diamide is a diamide represented by the following formula (4) and said phenylenediamine is a phenylenediamine represented by

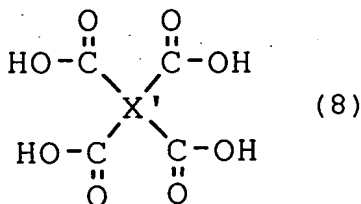
the following formula (5).



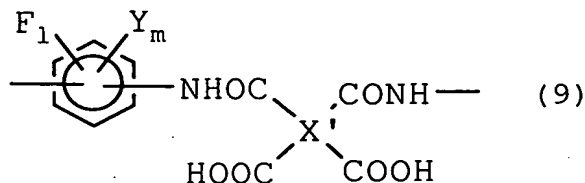
wherein in the formulas (4) and (5), Y stands for a hydrogen atom (H), a bromine atom (Br), a chlorine atom (Cl), a fluorine atom (F), a C₁ - C₅ alkyl group optionally having a substituent, or a C₁ - C₅ alkoxy group optionally having a substituent.

4. A method according to any one of claims 1 - 3, wherein the molar absorption coefficient of the fluorinated phenylenediamine represented by the formula (2) at a wavelength of 450 nm is not more than 2.5 (l/mol·cm).

5. A method for the production of a polyamic acid represented by the formula (9), which comprises reacting the fluorinated phenylenediamine produced by the method set forth in claim 1 or 2 with tetracarboxylic acid represented by the formula (8), the acid anhydride or acid chloride thereof, or the ester thereof in an organic solvent.

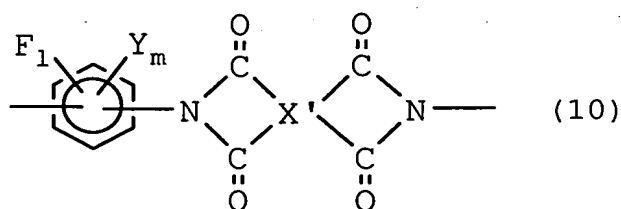


wherein X' stands for a tetravalent organic group,



wherein Y stands for a hydrogen atom (H), a bromine atom (Br), a chlorine atom (Cl), a fluorine atom (F), a C₁ - C₅ alkyl group optionally having a substituent, or a C₁ - C₅ alkoxy group optionally having a substituent, l is an integer in the range of 1 - 4, m is an integer in the range of 0 - 3, provided that the total number of l and m (l + m) is 4, and X' stands for a tetravalent organic group.

6. A method for the production of polyimide represented by the formula (10), which comprises cyclizing by heating the polyamic acid produced by the method set forth in claim 5:



wherein Y stands for a hydrogen atom (H), a bromine atom (Br), a chlorine atom (Cl), a fluorine atom (F), a C₁ - C₅ alkyl group optionally having a substituent, or a C₁ - C₅ alkoxy group optionally having a substituent, l is an integer in the range of 1 - 4, m is an integer in the range of 0 - 3, provided that the total number of l and m (l + m) is 4, and X' stands for a tetravalent organic group.